Name _____   Class _____

WRITING AND EVALUATING ALGEBRAIC EXPRESSIONS

Examples

Five more than m:

Five more than a number, increases a number by 5 so it would be $m + 5$.

Three less than x:

Three less than a number makes the number smaller by 3 so it would be $x - 3$.

Triple m:

Tripling a number is the same as multiplying the number by 3 so it would be $3m$.

Five divided by x:

Divsion is usually written as a fraction so it would be $\frac{5}{x}$.

To evaluate an algebraic expression means to calculate the value of the expression when the variable is replaced by a numerical value.

Evaluate $2x - 5$ if $x = 7$ Solution: $2x - 5 \Rightarrow 2 \cdot 7 - 5 = 14 - 5 = 9$

Evaluate $\frac{6}{x} + 9$ if $x = 2$ Solution: $\frac{6}{x} + 9 \Rightarrow \frac{6}{2} + 9 = 3 + 9 = 12$

INSTRUCTIONS: Use the examples above to guide your responses. Show any calculations.

2. Double s

4. 6 more than y

6. m subtracted from a

8. The product of 7 and e

10. 6 times c

12. h times 8, added to j

14. Half of r

16. Two less than triple n

18. $7d$ if $d = 10$

20. $4 + 8g$ if $g = 6$

22. $\frac{9g}{27}$ if $g = 3$

24. $\frac{y}{z} + 7$ if $y = 4, z = 2$